

November 10, 2004

Mr. W. L. Berg  
President and Chief Executive Officer  
Dairyland Power Cooperative  
3200 East Avenue South  
P.O. Box 817  
La Crosse, WI 54602-0817

SUBJECT: REPORT OF NOVEMBER 4, 2004, MEETING WITH DAIRYLAND POWER  
COOPERATIVE TO DISCUSS DECOMMISSIONING OF LA CROSSE BOILING  
WATER REACTOR

Dear Mr. Berg:

Enclosed is a report of the November 4, 2004, meeting between staff of the U.S. Nuclear Regulatory Commission and representatives of Dairyland Power Cooperative (DPC). The open meeting was held at the request of DPC to discuss the decommissioning status of the La Crosse Boiling Water Reactor and future decommissioning challenges.

If you have any questions regarding this letter, please contact me at (301) 415-5114 or [klb@nrc.gov](mailto:klb@nrc.gov).

Sincerely,

/RA/

Kristina L. Banovac, Project Manager  
Decommissioning Directorate  
Division of Waste Management  
and Environmental Protection  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: November 4, 2004, Meeting Report

Docket No.: 50-409  
License No.: DPR-45

cc: See next page

La Crosse Boiling Water Reactor

cc:

Mr. Roger Christians, Plant Manager  
La Crosse Boiling Water Reactor  
Dairyland Power Cooperative  
P.O. Box 275  
Genoa, WI 54632

Mr. Fritz Schubert, Esq.  
Dairyland Power Cooperative  
2615 East Avenue South  
La Crosse, WI 54601

Whieler, Van Sickle and Anderson  
Suite 801  
25 W. Main Street  
Madison, WI 53703-3398

Town Chairman  
Town of Genoa  
Route 1  
Genoa, WI 54632

Mr. Jeffery Kitsembel  
Electric Division  
Wisconsin Public Service Commission  
P.O. Box 7854  
Madison, WI 53707-7854

## MEETING REPORT

Date: November 4, 2004

Time: 9:00 a.m. - 10:00 a.m.

Place: U.S. Nuclear Regulatory Commission (NRC)  
One White Flint North Building, Room O-10-B4  
11555 Rockville Pike  
Rockville, Maryland 20852

Purpose: To discuss decommissioning status, schedule, activities, and future challenges at the La Crosse facility.

Attendees: See Attachment A

### Discussion:

The NRC Project Manager opened the meeting. A representative of Dairyland Power Cooperative (DPC) presented an overview of the site history and decommissioning progress since shutdown. DPC also discussed current and future decommissioning challenges, which include spent fuel management, unavailability of low-level waste and high-level waste disposal options, and an aging workforce at the La Crosse facility. DPC is currently considering options for removal and disposal of the reactor vessel and dry storage of spent fuel.

### Attachments:

- A. Meeting Attendees
- B. Dairyland Power Cooperative Presentation

Enclosure

### MEETING ATTENDEES

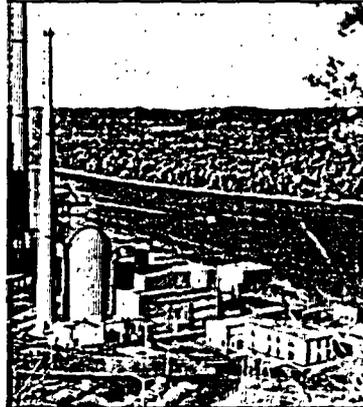
Date: November 4, 2004

Topic: Meeting with Dairyland Power Cooperative to discuss decommissioning status, schedule, activities, and future challenges at the La Crosse Boiling Water Reactor

NAME	AFFILIATION	PHONE NUMBER / EMAIL ADDRESS
Kristina Banovac	NRC/NMSS	301-415-5114 ; KLB@nrc.gov
STEWART BROWN	NRC/NMSS	301-415-8531 SWB1@NRC.GOV
Brenden Smith	NRC/OWC	✓ 2490 BGS@nrc.gov
Susan Urtal	NRC/CLARC	
Nathan Wildermann	NRC/OGC	NRW@nrc.gov
MICHAEL DUSAN/WSKYJ	NRC	301 415 1260 MAD1@NRC.GOV
John Penninger	NRC/SFPD	301-415-8540 JDP@NRC.GOV
Willis Bixby	DURATEK	410 312 5106 WBIXBY@DURATEKINC.COM
MALCOLM KNAPP	DURATEK-TALKMAN	301-351-3504 /DMKNAPP@aol.com
Claudia Craig	NRC/NMSS	301-415-7276 cmc1@nrc.gov
THOMAS FREDRICHS	NRC/NMSS	301 415 5971 TLF@NRC.GOV
Bill Huffman	NRC/NSIR	301 - 816 - 5146 WCH@NRC.GOV
Roger Christians	Dairyland Power	608-788-4000 REC@Dairy.net.com
Michael Johnson	Dairyland Power Corp	608-689-4210 MJJ@Dairy.net.com
David Carlson	Duratek	410-312-5100 dscarlson@duratekinc.com
Mark Lewis	Duratek	(803) 758-1827 MSLewis@Duratekinc.com
MANN KIRSH	Duratek	410-312-5100 MKirsh@Duratekinc.com
JOHN HESS	DURATEK	865-425-4561 jhess@DURATEKINC.COM
Mark Whittaker	Duratek	803-345-1625 mswhittaker@duratekinc.com
Steve Hom	NRC	415-1537 srh@nrc.gov
Mauri Lemorelli	NRC/OGC	415-1778 ml1@nrc.gov

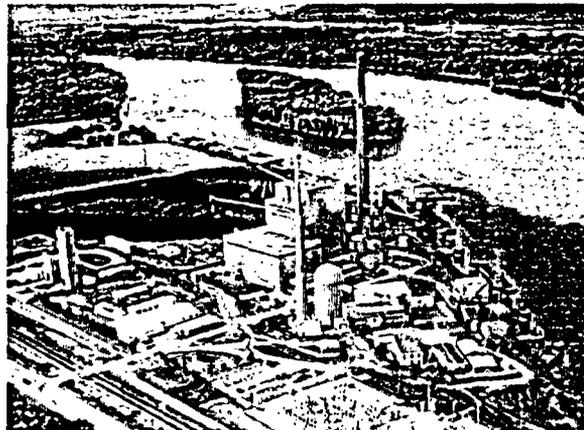
## Dairyland Power Cooperative La Crosse Boiling Water Reactor

Public Meeting  
with NRC  
November 4, 2004



## Atomic Energy Commission (AEC) Demonstration Project

- > Built by Allis Chalmers
- > Dairyland purchased plant in 1973 for \$1.00
- > Operated from 1967 – 1987 (approx. 10 full-power years)





## Unique Features

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- ❖ Size
  - 50 Mwe – smallest commercial plant
  - 60' diameter Containment Building
    - many constraints in available space
  - Extremely small site
- ❖ Fuel
  - Stainless Steel Clad
  - Shrouds (channels) are separate from fuel
- ❖ Others
  - Reactor Building crane capacity – only 50 tons
  - Original design allowed for shipping fuel for reprocessing while operating

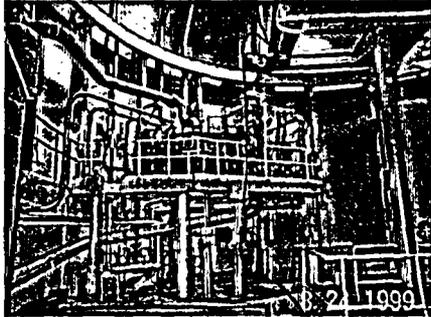


## LACBWR After Shutdown

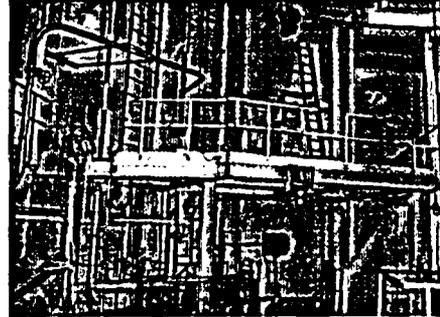
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- ❖ SAFSTOR decision made based on:
  - Decommissioning Funding inadequate for immediate decommissioning
  - At that time, there was no fuel disposal option
- ❖ Reduced staff to 27 people
- ❖ Limited dismantlement
  - Soon to go over 1 million lbs.
- ❖ Private Fuel Storage (PFS)
- ❖ Closely observed trends and developments in the Industry
  - NEI
  - Other shutdown facilities

## LACBWR Dismantlement



Before



After

## LACBWR Dismantlement

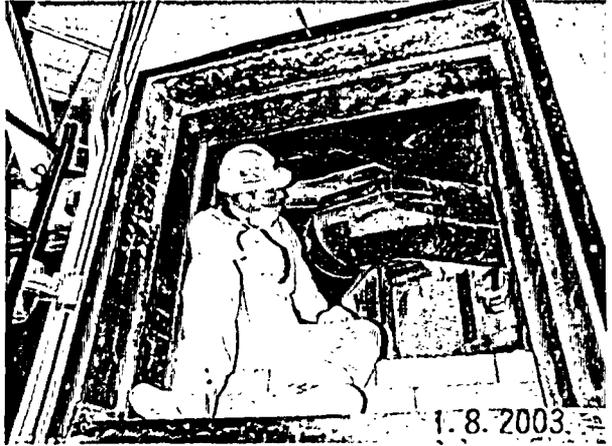


Before

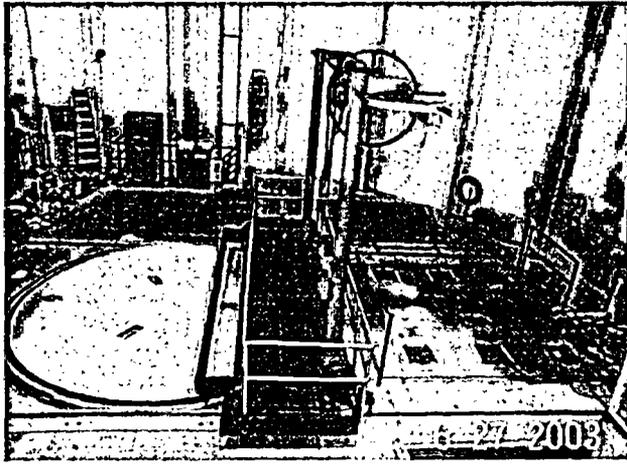


After

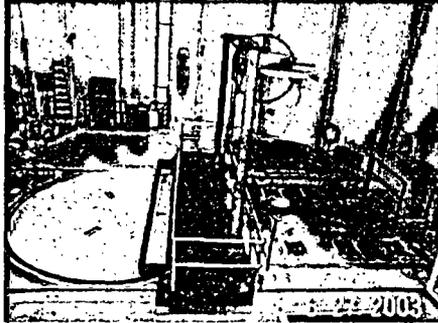
☐ LACBWR Dismantlement



☐ 701' Level (Refueling Floor)



## Recent "Progress"



- Dry Cask Storage discussions – maturation of industry
- Vendor visits
- Standard equipment; size and features
- Reactor Vessel characterization
- Survey of vendors – new concepts

## LACBWR Options

- Reactor vessel removal with fuel still in pool?
  - Barnwell space available thru 2007
- Dry fuel storage
  - Creative proposals for packaging and storage

